



IPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of **Finkel, et al.**
Application No. 10/820,262
Attorney Docket No. CHOP.0190US
Filed: April 8, 2004
For: FLUID PLANAR LIPID LAYER-BASED
MEMBRANE-ANCHORED LIGAND SYSTEM
WITH DEFINED LIGAND VALENCY AND
METHODS OF USE THEREOF
Examiner: Not yet assigned
Group Art Unit: 1653

CERTIFICATE OF MAILING UNDER 37 C.F.R § 1.8(a)

I hereby certify that this Correspondence is being deposited on the date identified below with the United States Postal Service as first-class mail in an envelope properly addressed to Mail Stop Amendment, COMMISSIONER FOR PATENTS, P.O. Box 1450, Alexandria, VA 22313-1450.

October 21, 2005
Date of Certificate

Jane Bogan
Jane Bogan

Mail Stop: Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97**

In compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, Applicants are submitting herewith a Form PTO-1449 and a copy of the references listed thereon. This Information Disclosure Statement is being filed more than three months after the filing date, but before receipt of the first Official Action on the merits. Thus, it is believed by the undersigned that no fee is required under 37 C.F.R. §1.97(b).

This submission is not an admission that the references listed on the attached

Form PTO-1449 constitute prior art against the claims of this application.

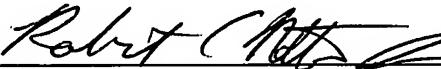
The Examiner is respectfully requested to confirm receipt and consideration of the cited references by initialing and returning a copy of the attached Form PTO-1449 in accordance with MPEP §609.

In the event that a fee is required, the Commissioner is authorized to charge Deposit Account No. 04-1406 of the undersigned attorneys. A duplicate copy of this sheet is enclosed.

Early and favorable consideration of this application is respectfully requested.

Respectfully submitted,

DANN, DORFMAN, HERRELL & SKILLMAN
A Professional Corporation
Attorneys for Applicants

By 

Robert C. Netter, Jr., Ph.D.
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Enclosures - Form PTO-1449

Copies of references listed on PTO - 1449

INFORMATION DISCLOSURE STATEMENT 		<i>Complete if known</i> Application Number: 10/820,262 Filing Date: April 8, 2004 First Named Inventor: Finkel, et al. Group Art Unit: 1653 Examiner Name: Not yet assigned Attorney Docket Number: CHOP.0190US	
SHEET	OF 2		

UNITED STATES PATENT DOCUMENTS				
EXAMINER'S INITIALS	CITE NO.	PATENT NUMBER	ISSUE DATE MM-DD-YYYY	FIRST NAMED INVENTOR
	A1	6,235,535	05-22-2001	Keinänen et al.
	A2	5,690,907	11-25-1997	Lanza et al.

FOREIGN PATENT DOCUMENTS					
EXAMINER'S INITIALS	CITE NO.	DOCUMENT NUMBER	COUNTRY OR REGION	DATE OF PUBLICATION MM-DD-YYYY	FIRST NAMED INVENTOR OR APPLICANT

OTHER PRIOR ART - NON-PATENT DOCUMENTS		
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in Capital Letters), title of the article (when appropriate), title of the item(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	LEE, G.M., et al., "Direct observation of Brownian motion of lipids in a membrane," Proc. Natl. Acad. Sci. USA, 88:6274-6278, (1991).
	C2	ALTMAN, J.D., et al., "Phenotypic Analysis of Antigen-Specific T Lymphocytes," Science, 274:94-96, (1996).
	C3	CREMER, P.S., et al., "Formation and Spreading of Lipid Bilayers on Planar Glass Supports," J. Phys. Chem. B, 103:2554-2559, (1999).
	C4	EDMISTON, P.L., et al., "Molecular Orientation Distributions in Protein Films. 4. A Multilayer Composed of Yeast Cytochrome c Bound through an Intermediate Streptavidin Layer to a Planar Supported Phospholipid Bilayer," J. Am. Chem. Soc., 120:1665-1671, (1998).
	C5	BONIFACE, J.J., et al., "Initiation of Signal Transduction through the T Cell Receptor Requires the Multivalent Engagement of Peptide/MHC Ligands," Immunity, 9:459-466, (1998).
	C6	GRAKoui, A., et al., "The Immunological Synapse: A Molecular Machine Controlling T Cell Activation," Science, 285:221-227, (1999).
	C7	KAASGAARD, T., et al., "Lipid domain formation and ligand-receptor distribution in lipid bilayer membranes investigated by atomic force microscopy," FEBS Letters, 515:29-34, (2002).
	C8	GROVES, J.T., et al., "Supported planar bilayers in studies on immune cell adhesion and communication," Journal of Immunological Methods, 278:19-32 (2003).

EXAMINER'S SIGNATURE	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw a line through citation if citation not in conformance and reference not considered. Include a copy of this form with next communication to applicant.

**INFORMATION
DISCLOSURE
STATEMENT**

SHEET 2 OF 2

Complete if known

Application Number: 10/820,262

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First Named Inventor: Finkel, et al.

Group Art Unit: 1653

Examiner Name: Not yet assigned

Attorney Docket Number: CHOP.0190US

	C9	WATTS, T.H., et al., "Antigen presentation by supported planar membranes containing affinity-purified I-A ^d ," Proc. Natl. Acad. Sci. USA, 81:7564-7568, (1984).
	C10	SUBRAMANIAM, S., et al., "Lateral diffusion of specific antibodies bound to lipid monolayers on alkylated substrates," Proc. Natl. Acad. Sci. USA, 83:1169-1173, (1986).
	C11	KROGSGAARD, M., et al., "Agonist/endogenous peptide-MHC heterodimers drive T cell activation and sensitivity," Nature, 434:238-243, (2005).

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